



## C SERIES

### Power Flame Burner Information

Boiler Size	Burner Model		Motor Horsepower			Firing Sequence <sup>[1]</sup>		Standard UL Flame Safeguard			Gas Train		
	Gas and Gas/#2 Oil	#2 Oil	Gas	#2 Oil and Gas/#2 Oil	Voltage	Gas	#2 Oil and Gas/#2 Oil	Gas	#2 Oil	Gas/#2 Oil	Size <sup>[4] [5]</sup>	Min. Pres.	Max. Pres.
C-20	C1-*-10	C1-O	1/3	1/2	115/60/1	On-Off	On-Off	RM7897A/UV	R7184P/CC	RM7897C/UV	1	3.5" w.c.	14.0" w.c.
C-30	C1-*-12	C1-O	1/2	1/2	115/60/1	On-Off	On-Off	RM7897A/UV	R7184P/CC	RM7897C/UV	1 1/4	5.5" w.c.	14.0" w.c.
C-40	C2-*-15	C2-OA	1/2	3/4	230/60/1 <sup>[3]</sup>	On-Off	L-H-O	RM7897A/UV	R7184P/CC	RM7897C/UV	1 1/4	4.5" w.c.	14.0" w.c.
C-50	C2-*-20A	C2-OA	3/4	3/4 / 1 <sup>[2]</sup>	230/60/1	L-H-O	L-H-O	RM7897A/UV	R7184P/CC	RM7897C/UV	1 1/2 / 1 1/4	6.8" w.c.	14.0" w.c.
C-60	C2-*-20B	C2-OB	1	1 1/2	230/60/1	L-H-O	L-H-O	RM7897A/UV	R7184P/CC	RM7897C/UV	2 / 1 1/2	5.2" w.c.	14.0" w.c.
C-70	C2-*-20B	C2-OB	1	1 1/2	230/60/1	L-H-O	L-H-O	RM7897C/UV	R7184P/CC	RM7897C/UV	2 / 1 1/2	6.7" w.c.	14.0" w.c.
C-80	C3-*-20	C3-O	1 1/2	2	208/460/3	L-H-O	L-H-O	RM7897C/UV	RM7897C/UV	RM7897C/UV	2 / 1 1/2	8.0" w.c.	14.0" w.c.
C-90	C3-*-20	C3-O	1 1/2	2	208/460/3	L-H-O	L-H-O	RM7897C/UV	RM7897C/UV	RM7897C/UV	2	7.9" w.c.	14.0" w.c.
C-100	C3-*-25B	C3-OB	3	3	208/460/3	L-H-O	L-H-O	RM7897C/UV	RM7897C/UV	RM7897C/UV	2	7.4" w.c.	14.0" w.c.
C-125	C4-*-30	C4-OB	5	5	208/460/3	L-H-O	L-H-O	RM7897C/UV	RM7897C/UV	RM7897C/UV	2	10.5" w.c.	14.0" w.c.
C-150	C5-*-30	C5-O	7 1/2	7 1/2	208/460/3	MOD	MOD	RM7840L/UV	RM7840L/UV	RM7840L/UV	2 1/2	10.0" w.c.	28.0" w.c.
C-175	C5-*-30	C5-O	7 1/2	7 1/2	208/460/3	MOD	MOD	RM7840L/UV	RM7840L/UV	RM7840L/UV	3	10.9" w.c.	28.0" w.c.
C-200	C6-*-30	C6-O	10	10	208/460/3	MOD	MOD	RM7840L/UV	RM7840L/UV	RM7840L/UV	3	11.5" w.c.	28.0" w.c.

[1] Explanation of Firing Sequences:

#### Gas and Gas Sequence on Combination Gas/Oil Boilers

On-Off Slow opening gas valve, fixed air damper, diaphragm gas valve.

L-H-O Slow opening gas valve, adjustable position (LFS) air damper, linked to motorized gas valve.

#### Oil and Oil Sequence on Combination Gas/Oil Boilers

On-Off Fixed air damper, oil valve.

On-Off LFS Fixed air low fire start.

L-H-O Adjustable air damper (spring close), linked to oil pressure cylinder, oil pressure regulator and by-pass valve for LFS.

[2] Oil blower motor is 3/4 hp and combination gas/oil is 1 hp.

[3] Voltage on gas burner model is 115/60/1.

[4] Model C-50 & C-60 - Dual size gas trains: Leak test cock and main gas valve are indicated by the first number; combination gas valve/regulator and main shutoff cock are indicated by the second number.

[5] Models C-70 & C-80 - Dual size gas trains: Leak test cock, main gas valve and auxiliary gas valve are indicated by the first number; gas regulator and main shutoff cock are indicated by the second number.



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### Power Flame Burner Equipment

Equipment	Fuel	Description
Control Cabinet	Gas, #2 Oil, Gas/#2 Oil	NEMA 1A with hinged door.
Control Voltage Transformer	Gas, #2 Oil, Gas/#2 Oil	Included with all but 115/60/1 burners.
Motor Starter	Gas, #2 Oil, Gas/#2 Oil	Contactors on all single phase motors. Magnetic starter with overload protection on 3-phase motors.
Fusing	Gas, #2 Oil, Gas/#2 Oil	Control circuit only.
Ignition	Gas and Gas/#2 Oil	Gas/Electric pilot.
	#2 Oil	Direct spark.
Signal Lights	Gas, #2 Oil, Gas/#2 Oil	Two [power on and fuel on].
	Full Mod	Four [power on, fuel on, flame failure, and call for heat]
Air Flow Safety Switch	Gas, #2 Oil, Gas/#2 Oil	All models.
	#2 Oil	C-70 and larger
Gas Train	Gas and Gas/#2 Oil	UL gas train for minimum inlet pressure indicated on Burner Information table. Shipped unassembled and consisting of the following: <ul style="list-style-type: none"> <li>• Manual shut-off valve.</li> <li>• Gas pressure regulator</li> <li>• Manual leak test valve.</li> <li>• <u>Automatic gas valve</u>: Diaphragm type with On-Off sequence. Solenoid type all others.</li> <li>• <u>Safety gas valve</u>: Solenoid type.</li> <li>• <u>High and Low gas pressure switches</u>: Models C-60 and larger.</li> </ul>
Oil Pump	#2 Oil and Gas/#2 Oil	Integral with burner.
Pilot Gas Controls	Gas, #2 Oil, Gas/#2 Oil	All models with gas/electric pilot have manual pilot shut-off valve, soft seat low gas pressure regulator and solenoid gas valve.
Fuel Changeover	Gas/#2 Oil	Manual switch.